

Name:
Period:
Date:

Statistics Test Review:

1. Definitions: (2 point each)

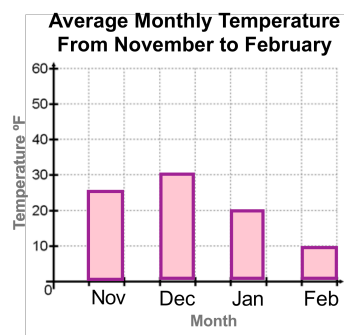
Word	Description
a. range	the difference between the largest and smallest number in a list
b. median	the middle number (or the average of the two central numbers) of a list
c. mode	the number of numbers that appear most often in a list of data
d. mean	the average of a set of numbers
e. empirical probability	a type of probability that uses frequency distributions based on observations
f. classical probability	a type of probability that uses sample spaces to determine the numerical
g. Venn Diagram	a pictorial representative for a probability concept or rule
h. tree diagram	a device used to list all possibilities of a sequence of events in a systematic way
i. outcome	the result of a single trial
j. event	one or more outcomes

2. (5 points) In a box there are 5 red marbles, 2 blue marbles and 8 yellow marbles. If one marble is chosen at random from the box, what is the probability of choosing:
(a) a red marble
(b) a blue or yellow marble

3. (5 points) During the last 15 basketball games, Sam has made 67 and missed 33 foul shots. What is the empirical (or experimental) probability that Sam will make his next foul shot?

4. (5 points) What was the highest monthly temperature from the data below.

- a.
b.
c.
d.

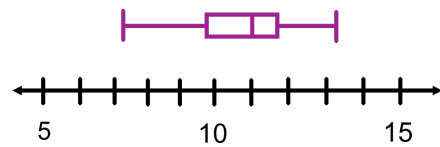


5. (5 points) What is the mode of the group of numbers below.

- a. 22
- b. 39
- c. 30
- d. 21

South High Shot Put Throws (ft)	
Stem	Leaf
2	1 1 2 5 7 8 8
3	0 0 1 1 6 8 9 9 9
4	0 0 0 1 1 2 2 5
5	1 2 5

6. (5 points) A box and whisker plot for average annual rainfall is shown below. What is the median?



Average Annual Rainfall (inches)

7. (15 points) Use the following numbers to create a box and whisker plot.

2, 5, 7, 7, 9, 3, 9, 4, 2, 1



8. (20 points) Find the Mean, median, mode, and range of the following list of numbers.

4, 5, 10, 11, 12, 13, 13, 15, 16, 17, 18, 18, 19, 20, 20